

Application No. 09/710,394  
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Amendment  
Attorney Docket No. S63.2-11048

In the Claims

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1. (Original) A catheter balloon material formed from a blend of polymeric components, comprising:

approximately 50-95% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a glass transition temperature in the range of -37 to 10 degrees C, and about 5-50% by weight of the total blend composition of a second urethane polymer component having a glass transition temperature in the range of 20 to 31 degrees C.

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2. (Original) The catheter balloon material as recited in Claim 1, wherein using said blend in fabricating a catheter balloon results in a compliant balloon.

3. (Previously presented) The catheter balloon material as recited in Claim 1, wherein said blend has a glass transition temperature in the range of 22 to 26 degrees C.

4. (Original) The catheter balloon material as recited in Claim 2, where said compliant balloon expands its nominal diameter equal to or greater than 20% when internal pressure is increased to its rated burst pressure.

5. (Original) A catheter balloon material formed from a blend of polymeric components, comprising:

approximately 70-90% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a glass transition temperature in the range of -37 to 10 degrees C, and about 10-30% by weight of the total blend composition of a second urethane polymer component having a glass transition temperature in the range of 20 to 31 degrees C.

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6. (Original) The catheter balloon material as recited in Claim 5, wherein using said blend in fabricating a catheter balloon results in a semi-compliant balloon.
7. (Previously presented) The catheter balloon material as recited in Claim 5, wherein said blend has a glass transition temperature in the range of 26 to 42 degrees C.
8. (Original) The catheter balloon material as recited in Claim 6, where said compliant balloon expands its nominal diameter between 9 to 20% when internal pressure is increased to its rated burst pressure.
9. (Original) A catheter balloon material formed from a blend of polymeric components, comprising:
- approximately 15-30% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a glass transition temperature in the range of 0 to 10 degrees C, and about 70-85% by weight of the total blend composition of a second urethane polymer component having a glass transition temperature in the range of 65 to 100 degrees C.
10. (Original) The catheter balloon material as recited in Claim 9, wherein using said blend in fabricating a catheter balloon results in a non-compliant balloon.
11. (Previously presented) The catheter balloon material as recited in Claim 9, wherein said blend has a glass transition temperature in the range of 43 to 90 degrees C.
12. (Currently amended) The catheter balloon material as recited in Claim 10, where said non-compliant balloon expands its nominal diameter less than or equal to 9% when internal pressure is increased to its rated burst pressure.
13. (Original) A catheter balloon material formed from a blend of polymeric components, comprising:

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approximately 50-95% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a Shore D Hardness in the range of 45 to 70, and about 5-50% by weight of the total blend composition of a second urethane polymer component having a Shore D Hardness in the range of 54 to 78.

14. (Original) The catheter balloon material as recited in Claim 13, wherein using said blend in fabricating a catheter balloon results in a compliant balloon.

15. (Original) The catheter balloon material as recited in Claim 14, where said compliant balloon expands its nominal diameter equal to or greater than 20% when internal pressure is increased to its rated burst pressure.

16. (Currently amended) A catheter balloon material formed from a blend of polymeric components, comprising:

approximately 50-95% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a Shore D Hardness in the range of 45 to 70, and about 5-50% by weight of the total blend composition of a second urethane polymer component having a Shore D Hardness in the range of 54 to 78.

17. (Original) The catheter balloon material as recited in claim 16, wherein using said blend in fabricating a catheter balloon results in a semi-compliant balloon.

18. (Currently amended) The catheter balloon material as recited in Claim 17, where said semi-compliant balloon expands its nominal diameter between 9 to 20% when internal pressure is increased to its rated burst pressure.

19. A catheter balloon material formed from a blend of polymeric components, comprising:

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approximately 15-30% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a Shore D Hardness in the range of 70 to 85, and about 70-85% by weight of the total blend composition of a second urethane polymer component having a Shore D Hardness in the range of 75 to 87.

8 20. (Original) The catheter balloon material as recited in claim 19, wherein using said blend in fabricating a catheter balloon results in a non-compliant balloon.

9 21. (Currently amended) The catheter balloon material as recited in Claim 20, where said non-compliant balloon expands its nominal diameter less than or equal to 9% when internal pressure is increased to its rated burst pressure.

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Cond 22. (New) A catheter balloon formed from a polymeric composition comprising about 50-95% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a glass transition temperature in the range of -37 to 10 degrees C, and about 5-50% by weight of the total blend composition of a second urethane polymer component having a glass transition temperature in the range of 20 to 31 degrees C.

23. (New) The catheter balloon of claim 1 wherein said balloon is a compliant balloon.

24. (New) A catheter balloon formed from a polymeric composition comprising about 70-90% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a glass transition temperature in the range of 0 to 10 degrees C, and about 10-30% by weight of the total blend composition of a second urethane polymer component having a glass transition temperature in the range of 55 to 70 degrees C.

25. (New) The catheter balloon of claim 24 wherein said catheter balloon is semi-compliant.

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26. (New) A catheter balloon formed from a polymeric composition comprising about 15-30% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a glass transition temperature in the range of 0 to 10 degrees C, and about 70-85% by weight of the total blend composition of a second urethane polymer component having a glass transition temperature in the range of 65 to 100 degrees C.

27. (New) The catheter balloon of claim 26 wherein said catheter balloon is non-compliant.

28. (New) A catheter balloon formed from a polymeric composition comprising about 50-95% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a Shore D Hardness in the range of 45 to 70, and about 5-50% by weight of the total blend composition of a second urethane polymer component having a Shore D Hardness in the range of 54 to 78.

29. (New) The catheter balloon of claim 28 wherein said catheter balloon is compliant.

30. (New) A catheter balloon formed from a polymeric composition comprising about 70-90% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a Shore D Hardness in the range of 55 to 75, and about 10-30% by weight of the total blend composition of a second urethane polymer component having a Shore D Hardness in the range of 70 to 85.

31. (New) The catheter balloon of claim 30 wherein said catheter balloon is semi-compliant.

32. (New) A catheter balloon formed from a polymeric composition comprising about 15-30% by weight of the total blend of a first urethane polymeric component, said first urethane polymer having a Shore D Hardness in the range of 70 to 85, and about 70-85% by weight of the total blend composition of a second urethane polymer component having a Shore D Hardness in the range of 75 to 87.

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33. (New) The catheter balloon of claim 32 wherein said catheter balloon is non-compliant.

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